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1. An asphalt roofing composition in the form of a roll or a shingle like structure in which a hot mixture of an asphaltic base and filler is applied to a substrate form, wherein the composition also comprises an amount of an alkaline earth metal hydroxide in order to impart strength and durability to the composition.

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11 2. The composition of Claim 1, wherein the alkaline 12 earth metal hydroxide is selected from a group 13 consisting of Ca(OH)<sub>2</sub>, Mg(OH)<sub>2</sub>, and Ca(OH)<sub>2</sub> Mg(OH)<sub>2</sub>.

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15 3. The composition of Claim 1, wherein the alkaline earth metal hydroxide is between about 1-10% by weight of asphalt.

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4. The composition of Claim 1, wherein the alkaline earth metal hydroxide is between about 3-5% by weight of asphalt.

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23 5. The composition of Claim 1, wherein the filler is fly ash.

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26 6. The composition of Claim 1, wherein the filler is CaCO<sub>3</sub>.

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7. The composition of Claim 1, wherein the filler is MgCO<sub>3</sub> or MgCO<sub>2</sub>·CaCO<sub>3</sub>.

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1 8. The composition of Claim 1, wherein the alkaline 2 earth metal hydroxide is first added directly to the 3 asphaltic base of the composition.

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5 9. The composition of Claim 1, wherein the alkaline 6 earth metal hydroxide is first added directly to the 7 filler of the composition.

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9 10. The composition of Claim 1, wherein the alkaline 10 earth metal is added first to the filler then to the 11 asphaltic base of the composition.

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13 11. The composition of Claim 1, wherein the composition 14 is between about 30% to 60% asphalt by weight.

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or a shingle-like structure in which a hot mixture of an asphaltic base, filler, and water is applied to a substrate form, wherein the composition also comprises an amount of an alkaline earth metal oxide in order to impart strength and durability to the composition, the metal oxide reacting with water in the filler to produce the corresponding metal hydroxide.

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26 13. The composition of Claim 12, wherein the alkaline 27 earth metal oxide is selected from a group 28 consisting of CaO, MgO, and CaO MgO.

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30 14. The composition of Claim 12, wherein the alkaline earth metal oxide is between about 1-10% by weight of asphalt.

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/ Jr/ 2	15.	The composition of Claim 12, wherein the alkaline
90 3		earth metal oxide is between about 3-5% by weight of
7		asphalt.
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•		The name of them of Chim 12 who roin the filler is

The composition of Claim 12, wherein the filler is 16. 6 7 fly ash.

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The composition of claim 12, wherein the filler is 9 10 CaCO<sub>3</sub>.

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The composition of Claim 12, wherein the filler is 12 18. MgCO<sub>3</sub> or MgCO<sub>2</sub> CaCO<sub>3</sub>. 13

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The composition of Claim 12, wherein the alkaline 15 19 earth metal  $\phi$ xide is first added directly to the 16 17 asphaltic base of the composition.

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The composition of Claim 12, wherein the alkaline 20. earth metal oxide is added first to the filler with water, the oxide and water thus reacting to form the corresponding hydroxide, the hydroxide and filler then being added to the asphaltic base of the composition.

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The composition of Claim 12, wherein the composition 26 21. 27 is between about 30% to 60% asphalt by weight.

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A method of forming an asphalt roofing composition 29 in the form of a roll or a shingle-like structure, 30 the method comprising: 31

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1		heating an amount of asphalt;
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3		providing a desired amount of an alkaline earth
4		metal hydroxide;
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6	•	providing a filler;
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8		combining the asphalt, metal hydroxide, and filler
9		to form the composition; and
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11		placing the composition onto a substrate form and
12		allowing the second hot mixture to cool around the
13		substrate form.
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15	23.	The method of Claim 22, wherein the hot asphalt and
16		the metal hydroxide are first mixed to form a
17		mixture, and the filler is then added to form the
18		composition.
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20	24.	The method of Claim 22, wherein the metal hydroxide
21		and filler are first mixed to form a mixture, and
22		the hot asphalt is then added to form the
23		composition.
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25	25.	The method of Claim 22, wherein the alkaline earth
26		metal hydroxide is selected from a group consisting
27		of $Ca(OH)_2$ , $Mg(OH)_2$ , and $Ca(OH)_2$ · $Mg(OH)_2$ .
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29	26.	The method of Claim 22, wherein the alkaline earth
30		metal hydroxide is between about 1-10% by weight of
31		asphalt.
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1	27.	The method of Claim 22, wherein the alkaline earth
2		metal hydroxide is between about 3-5% by weight of
3		asphalt.
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5	28.	The method of Claim 22, wherein the composition is
6		between about 30% to 60% asphalt by weight.
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8	29.	The method of Claim 22, wherein the substrate form
9		is a fiberglass mat.
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11	30.	A method of forming an asphalt roofing composition
12		in the form of a roll or a shingle-like structure,
13		the method comprising:
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15	•	heating an amount of asphalt;
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17		providing a desired amount of an alkaline earth
18		metal oxide;
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20		providing a filler and water;
21		
22		combining the asphalt, metal oxide, water and filler
23		to form the composition; and
24		
25		placing the composition onto a substrate form and
26		allowing the second hot mixture to cool around the
27		substrate form.
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29	31.	The method of Claim 30, wherein the metal hydroxide
30		and filler are first mixed with water to form a
31		mixture, and the hot asphalt then being added to
2.2		form the composition

1	32.	The method of Claim 30, wherein the alkaline earth
2		metal oxide is selected from a group consisting of
3		CaO, MgO, and CaO·MgO.
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5	33.	The method of Claim 30, wherein the alkaline earth
6		metal oxide is between about 1-10% by weight of

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asphalt.

9 34. The method of Claim 30, wherein the alkaline earth 10 metal oxide is between about 3-5% by weight of 11 asphalt.

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13 35. The method of Claim 30, wherein the composition is 14 between about 30% to 60% asphalt by weight.

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16 36. The method of Claim 30, wherein the substrate form
17 is a fiberglass mat.